aiwa

COMPACT DISC STEREO SYSTEM
Z-L120

OPERATING INSTRUCTIONS

R·D·S EON

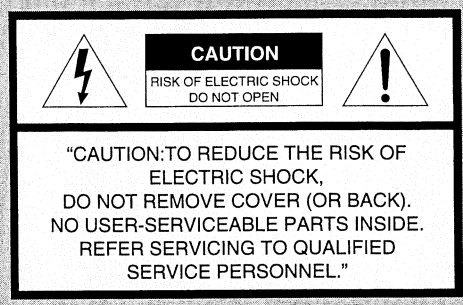
COMPACT disc DIGITAL AUDIO

8B-MA6-905-11
001207BKP-P9

K

WARNING

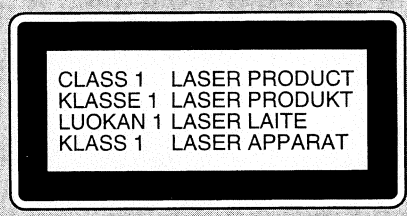
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This compact disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the exterior.



CAUTION!

Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** — Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.
2 **Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** — Place the unit on a flat, even surface.
4 **Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit, and 5 cm (2 in.) from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Objects and liquid entry** — Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** — When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.
7 **Condensation** — Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

WARNING

This appliance is supplied with a fitted three pin mains plug. A 5 amp fuse is fitted in the plug.
Should the fuse need to be replaced, use a 5 amp fuse approved by ASTA or BSI to BS1362. When replacing the fuse, you must ensure that any removable fuse covers are correctly refitted.
If you should lose the fuse cover, please contact your nearest AIWA dealer.

DO NOT CUT OFF THE PLUG FROM THIS APPLIANCE. If the plug fitted is not suitable for the power points in your home, or the cable is too short to reach a power point, obtain an appropriate safety approved extension lead or adaptor. If in any doubt please consult a qualified electrician.

If the plug is cut off, remove the fuse and dispose of the plug immediately. **THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.**

If a new plug is to be fitted please ensure it contains a 5 amp fuse, otherwise the circuit should be protected by a 5 amp fuse at the distribution board.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE — NEUTRAL
BROWN — LIVE

As the colours of the wires in the mains lead of this appliance may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked by the letter L or coloured RED.

DO NOT connect either the BLUE or BROWN wires in the mains lead to the earth terminal (marked with the letter E or by the earth symbol ⏚ or coloured GREEN or GREEN/YELLOW) of a three pin plug.

Electric Power

1 **Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.

2 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be firmly secured to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the AC power socket.
- Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or shock.

3 **When not in use** — Unplug the AC power plug from the AC power socket if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

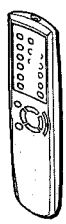
Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

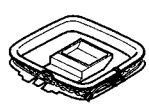
Check your system and accessories

CX-ZL120 Compact disc stereo cassette receiver
SX-ZL120 Front speakers

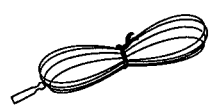
Remote control



MW/LW antenna



FM antenna



Operating Instructions, etc.

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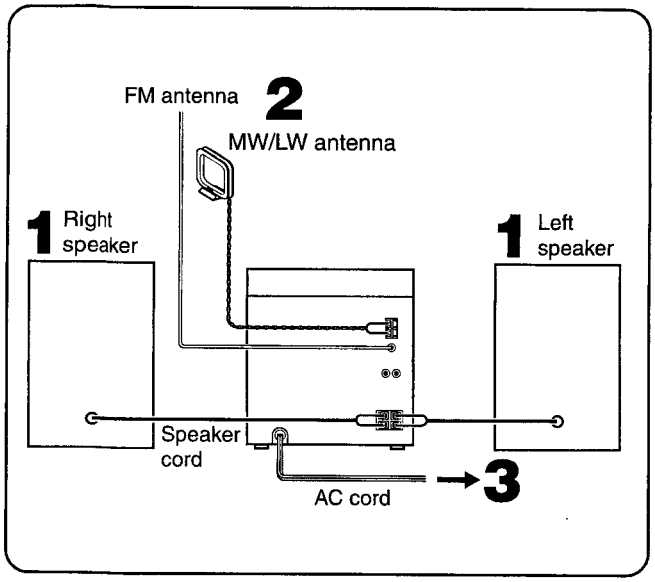
CONNECTIONS

IMPORTANT

- Connect the speakers, antennas and all optional equipment first. Then connect the AC cord.
- There are no difference between the front speakers. Both speakers can be connected as L (left) or R (right).

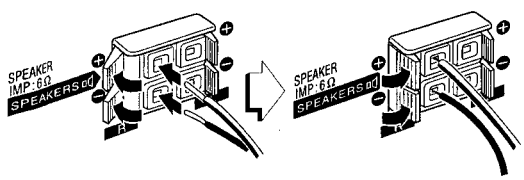
Before connecting the AC cord

The rated voltage of your unit shown on the rear panel is 230 V AC. Check that the rated voltage matches your local voltage.



1 Connect the right and left speakers to the main unit.

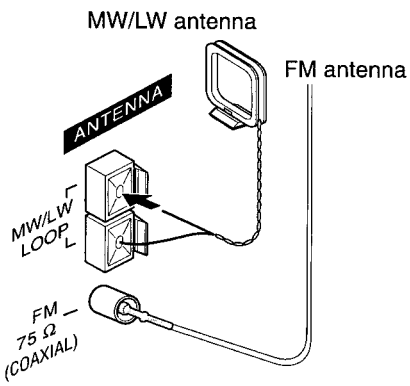
Connect the right speaker cord to **SPEAKERS R** terminals, and left to **SPEAKERS L** terminals.



The speaker cord with the white stripe should be connected to ⊕ terminal and the black cord to ⊖ terminal.

2 Connect the supplied antennas.

Connect the FM antenna to **FM 75** Ω terminals and the MW/LW antenna to **MW/LW LOOP** terminals.



3 Connect the AC cord to an AC outlet.

To position the antennas

FM antenna:

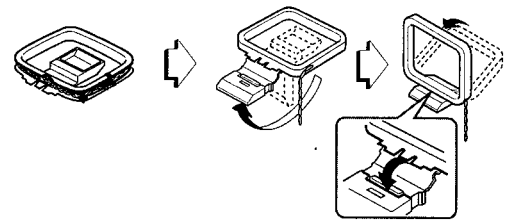
Extend fully and position for the best possible reception.
The use of an outdoor antenna is recommended for better reception.

MW/LW antenna:

Position to find the best reception.

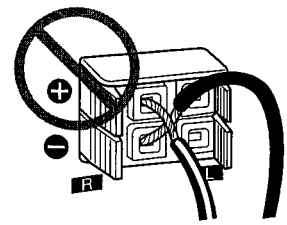
To stand the MW/LW antenna on a surface

Fix the claw to the slot.



NOTE

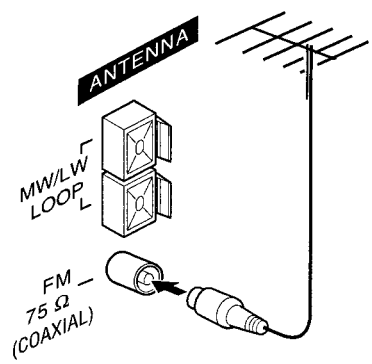
- Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in **SPEAKERS** terminals.



- Do not leave objects generating magnetism, such as credit cards, near the speakers, as the objects may be damaged.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the MW/LW antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, since noise will be picked up.
- Do not unwind the MW/LW antenna wire.

CONNECTING AN OUTDOOR ANTENNA

For better FM reception, use of an outdoor antenna is recommended.
Connect the outdoor antenna to **FM 75** Ω terminals.

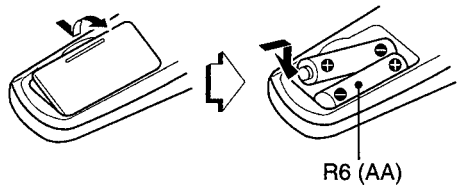


To connect other optional equipment → page 16.

REMOTE CONTROL

Inserting batteries

Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



When to replace the batteries

The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

To use SHIFT on the remote control

Buttons ① have two different functions. One of these functions is indicated on the button, and the other on the plate above the button.

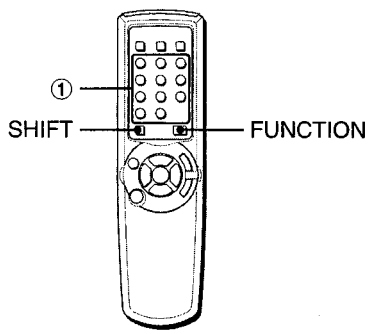
To use the function on the button, simply press the button.

To use the function on the plate above the button, press the button while pressing **SHIFT**.

To use FUNCTION on the remote control

FUNCTION substitutes for the function buttons (**TAPE**, **TUNER/BAND**, **VIDEO/AUX/PHONO**, **CD**) on the main unit.

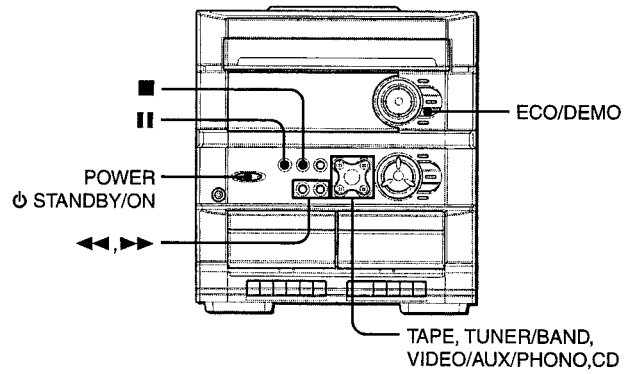
Each time **FUNCTION** is pressed, the next function is selected cyclically.



NOTE

- If the remote control is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the remote sensor inside the display window is exposed to intense light, such as direct sunlight.
  - Other remote controls are used nearby (those of a television, etc.).

BEFORE OPERATION



To turn the unit on

Press one of the function buttons (**TAPE, TUNER/BAND**, **VIDEO/AUX/PHONO**, **CD**). Playback of the inserted disc begins, or the previously tuned station is received (Direct Play Function).

POWER ⏻ STANDBY/ON is also available.

When the unit is turned on, the disc compartment may open and close to reset the unit.

To turn the unit off

Press **POWER ⏻ STANDBY/ON**.

DEMO (Demonstration) mode

When the AC cord is connected, the display window demonstrates the functions of the unit. When the power is turned on, the DEMO display is overridden by the operation display. When the power is turned off, the DEMO mode is restored.

When the clock is set, the DEMO will not begin even if the power is turned off.

To deactivate or activate DEMO

Press **ECO/DEMO** when the unit is turned off.

To change the brightness level of the display

1 When the unit is turned on, press **ECO/DEMO** twice so that "DIM MODE" is displayed.
2 Within 4 seconds, press **II**.
3 Within 4 seconds, press ◀◀ or ▶▶ repeatedly to select the dimmer mode as below.

DIM-OFF ⟷ DIMMER 1 ⟷ DIMMER 2 ⟷ DIMMER 3

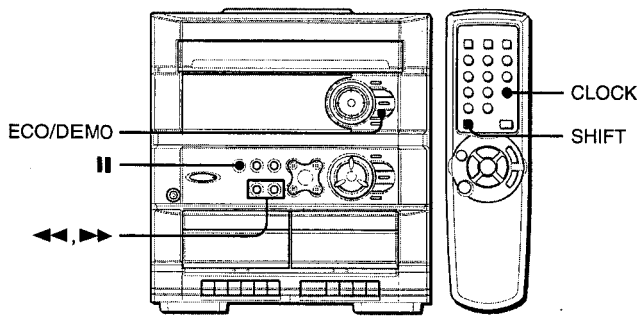
"DIM-OFF" mode is the brightest and "DIMMER 3" mode is the dimmest.

4 Within 4 seconds, press **II** to set the selected mode.

SETTING POWER ECONOMIZING MODE

When you set power economizing mode to "ECO ON" or "ECO AUTO", the unit reduces power consumption by conducting four ECO operations as follows.

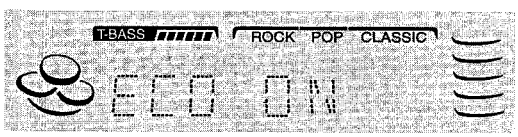
- The unit (all the illumination of the display) blacks out when the power is turned off. Only the red indicator lights up.
  - ➡ If the clock is not set, the unit does not black out. Instead, the DEMO will begin when the power is turned off.
- The illumination of the display brighten for 10 seconds only when you press a button, or turn **VOLUME**.
  - ➡ If the display dimmer mode is set to "DIM-OFF", the brightness of the illumination does not change.
- The display dimmer mode is set to the dimmest when the unit turns on by timer recording.
- The unit automatically turns itself off if you do not use it for 10 minutes. (only when "ECO AUTO" is selected)
  - ➡ The unit does not turn itself off when the function is VIDEO/AUX/PHONO.



1 Press ECO/DEMO once when the unit is turned on.
"ECO MODE" will be displayed.

2 Press II within 4 seconds.
The current power-economizing mode status will be displayed.
If the power-economizing mode is off: ECO OFF.
If the power-economizing mode is on: ECO ON or ECO AUTO.

3 Within 4 seconds, press ◄◄ or ►► repeatedly to select the power-economizing mode.
Example: When "ON" is selected.



4 Press II within 4 seconds to set the mode.

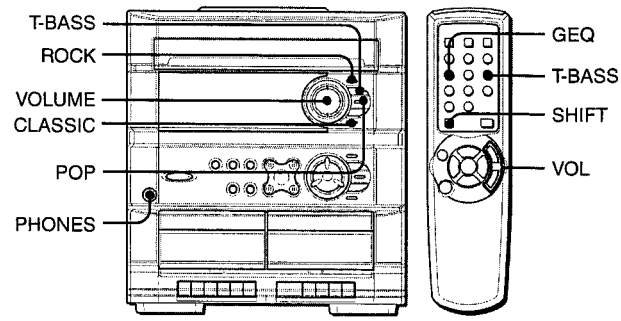
NOTE

To view the clock when all the display lights turn off, press **CLOCK** on the remote control while pressing **SHIFT** so that the time is displayed for 4 seconds.
When using the main unit, press II SET.

Using the headphones

Connect headphones to **PHONES** jack with a standard stereo plug (ø6.3 mm, 1/4 inch).
No sound is output from the speakers while the headphones are plugged in.

AUDIO ADJUSTMENTS



VOLUME CONTROL

Turn VOLUME on the main unit, or press VOL ∧ or ∨ on the remote control.
The volume level is displayed as a number from 0 to MAX (31). The volume level is automatically set to 16 when the power is turned off with the volume level set to 17 or more.

SUPER T-BASS SYSTEM

The T-BASS system enhances the realism of low-frequency sound.

Press T-BASS.
Each time it is pressed, the level changes. Select one of the three levels or the off position to suit your preference.

To select with the remote control
Press **T-BASS** while pressing **SHIFT**.

NOTE

Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is already emphasized. In this case, cancel the T-BASS system.

GRAPHIC EQUALIZER

This unit provides the following three different equalization curves.
ROCK: Powerful sound emphasizing treble and bass
POP: More presence in the vocals and midrange
CLASSIC: Enriched sound with heavy bass and fine treble

Press one of the graphic equalizer buttons (ROCK, POP, CLASSIC).
The selected equalization mode is displayed.

To cancel the selected mode
Press the selected button again. "GEQ OFF" is displayed.

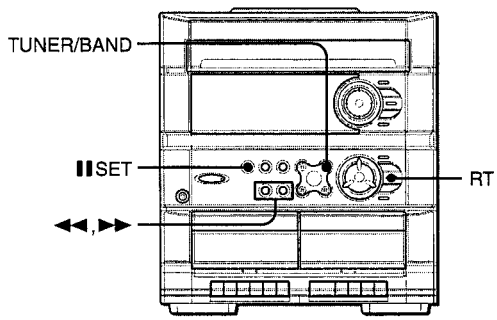
To select with the remote control
Press **GEQ** repeatedly while pressing **SHIFT**. The GEQ mode is displayed cyclically as follows.

ROCK → POP → CLASSIC → GEQ OFF (cancel) → ROCK

PRESETTING STATIONS

The unit can store a total of 32 preset stations. Presetting allows you to tune in to a station directly. Stations are assigned preset numbers, beginning from 1 in consecutive order for each band (FM, MW, LW).

Automatic presetting:
This unit has a function for reception of *1RDS (Radio Data System) and other stations.
FM RDS stations take priority over other FM stations if there are more than 32 receivable stations.
Manual presetting:
You can select stations to be preset from all the bands.



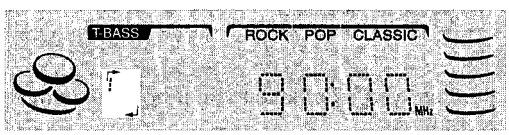
AUTOMATIC PRESETTING

The tuner scans through the receivable frequency range and stores stations automatically.

***1* Press TUNER/BAND until FM is displayed.**

***2* Keep RT pressed for 4 seconds until AUTO PRESET scrolls on the display.**

***3* Press II SET within 4 seconds.**
The tuner searches for a station, beginning with the FM band. When a tuned station is stored, the selected preset number flashes on the display.



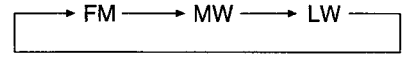
The search continues on the MW and LW bands if preset numbers are still available.
When automatic presetting has been completed, the display returns to the first preset station.

When the tuner detects *2identical RDS stations with alternative frequencies
Only the station with the stronger signal is stored.
Before storing an RDS station, the tuner checks first whether the same stations on the other frequencies are present, and stores the station with the best reception.

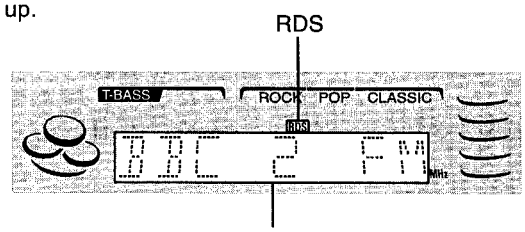
NOTE
When automatic presetting is done, all previously stored stations are cleared.

MANUAL PRESETTING

***1* Press TUNER/BAND repeatedly to select the band.**



***2* Press ◀◀ DOWN or ▶▶ UP to select a station.**
Each time the button is pressed, the frequency changes.
ⓐ When tuning in to an FM RDS station
After TUNE on the display goes out, the Programme Service station name (*3PS) is displayed and RDS lights up.



The Program Service station name (PS)

ⓑ When tuning in to the other stations
After TUNE on the display goes out, the band is displayed.

- During FM stereo reception, ((◎)) lights.

***3* Press II SET to store the stations.**
The selected preset number flashes.

***4* Repeat steps 1 to 3 to store the stations.**
The next station will not be stored if a total of 32 preset stations for all the bands have already been stored.

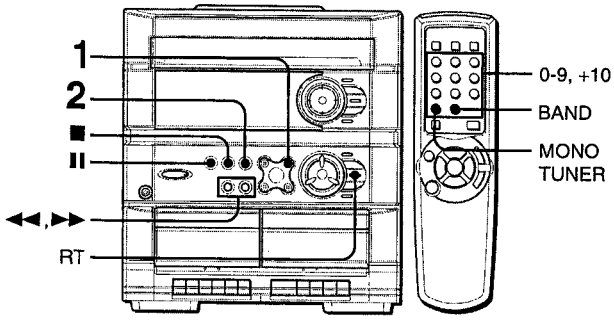
NOTE
"FULL" is displayed if you attempt to store more than 32 preset stations.

To search for a station quickly with ◀◀ DOWN or ▶▶ UP (Auto Search)
Keep one of the buttons pressed until the tuner starts searching for a station. The search stops when the tuner tunes in to a station.
To stop the Auto Search manually, press one of the buttons.
- The Auto Search may not stop at stations with very weak signals.

To change the MW tuning interval
The default setting of the MW tuning interval is 9 kHz/step. If you use the unit in an area where the frequency allocation system is 10 kHz/step, change the tuning interval as follows.
Press **POWER** while pressing **TUNER/BAND**.
To reset the interval, repeat this procedure.

NOTE
When the MW tuning interval is changed, all preset stations are cleared. The preset stations have to be set again.

RECEPTION BY PRESET NUMBER



1 **Press TUNER/BAND to select a band.**

2 **Press ► PRESET repeatedly.**
Each time the button is pressed, the next highest number is selected.

Selecting a preset number on the remote control
Press **BAND** while pressing **SHIFT** to select a band. Then, press the numbered buttons to select a preset number.
Example:
To select preset number 20, press **+10**, **+10** and **0**.
To select preset number 15, press **+10** and **5**.

To clear a preset station
Select the preset number of the station to be cleared. Then, press **■ CLEAR**, and press **II SET** within 4 seconds.
The preset numbers of all stations in the band with higher numbers are also decreased by one.

To tune in to a station which is not preset
Press **TUNER/BAND** to select a band, and press **◄◄ DOWN** or **►► UP** to select the station.

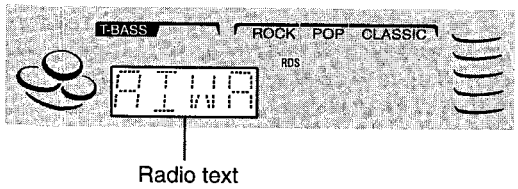
To play a tuned station when the power is off (Direct Play Function)
Press **TUNER/BAND**. The power is turned on and the tuned station is played.

When an FM stereo broadcast contains noise
Press **MONO TUNER** while pressing **SHIFT** on the remote control to display "MONO".

Noise is reduced, although reception is monaural.
To restore stereo reception, press the buttons again so that MONO indicators goes out.

NOTE
RDS functions may not work correctly if the RDS transmission data from the station contains too much interference or the reception signal is too weak.

To display radio text (*4RT) during RDS reception
Press **RT** once. Text scrolls on the display.
To return to the normal display, press **RT** again.

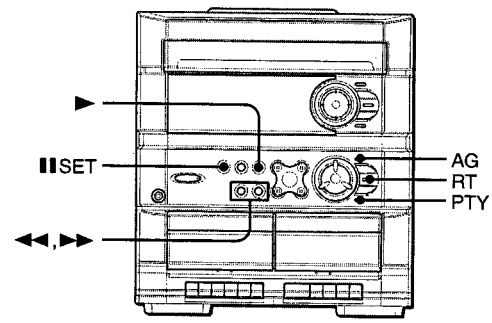


Radio text

If the tuned station is not transmitting RT codes. "NO RT" is displayed when **RT** is pressed.

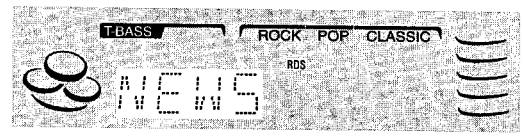
SEARCHING WITH THE HELP OF RDS CODES

Each RDS station identifies the type of program (*5PTY) which it is currently broadcasting. If you specify a PTY, the unit can automatically detect a suitable station from the preset stations. In addition, the *6EON (Enhanced Other Networks) service works in some areas, so that searching is made much faster.



TO DISPLAY THE PTY

Press PTY once during RDS reception.



Programmes are classified as follows:

TRAFFIC, NEWS, AFFAIRS (current affairs), INFO (information), SPORT, EDUCATE (education), DRAMA, CULTURE, SCIENCE, VARIED, POP M (pop music), ROCK M (rock music), EASY M (middle of the road music), LIGHT M (light classical), CLASSICS (serious classical), OTHER M (other music), WEATHER, FINANCE, CHILDREN (Children's programmes), SOCIAL (Social Affairs), RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ (Jazz Music), COUNTRY (Country Music), NATION M (National Music), OLDIES (Oldies Music), FOLK M (Folk Music), DOCUMENT (Documentary), TEST (Alarm Test), ALARM

NOTE
- If programme type information is not being transmitted, "NO PTY" is displayed.
- If undefined programme type information is being transmitted, "UNDEFINE" is displayed.
- The unit identifies TRAFFIC with one of the programme types.

TO SEARCH FOR A SPECIFIED PTY

1 **Press PTY.**
The programme type of the currently tuned station is displayed.

2 **Within 4 seconds, press ◄◄ or ►► to select a programme type.**

3 **Within 4 seconds, press PTY again.**
The search automatically checks every preset station. After identifying a suitable station, the station will be selected.

When a station is not found
NOT FOUND is displayed and the unit returns to the previous station.

When the TRAFFIC programme type is selected
The unit searches for a station transmitting a *7TP code. However, the tuned station may not be broadcasting a traffic announcement currently. Wait for a while. The tuned station broadcasts traffic information regularly and a traffic announcement will be made.

EON SEARCH

When EON service works to transmit PTY, a suitable station is detected without checking every preset station. When a station transmits EON information, it takes about 15 to 30 seconds for the unit to decode the EON information. After decoding the information, the EON lights up on the display.
With EON search, during FM RDS reception, the unit switches to radio programmes with the specified PTY automatically as soon as they begin.

1 **Press PTY.**
The programme type of the currently tuned station is displayed.

2 **Within 4 seconds, press ◄◄ or ►► to select a programme type.**

3 **Within 4 seconds, press ▮▮ SET.**
"EON ON" is displayed for 3 seconds. Then, "EON" starts flashing and the unit enters EON search standby mode.
When radio programme with the specified PTY in another radio station begins, it interrupts the currently playing radio programme and the radio programme with the specified PTY is heard. At this time, "EON" flashes rapidly.
At the end of the radio programme with the specified PTY, the previous FM radio station is restored.
- EON search standby mode is stored until it is cancelled even when the power is turned off.

To check the selected EON PTY
Press and hold down **PTY** for about 4 seconds. The specified PTY and "EON PTY" are displayed alternately.

To restore the previous FM station during radio reception of the radio programme with the specified PTY
Press ► **PRESET**. At this time, the EON search standby mode is cancelled.
- If ■ **CLEAR** is pressed, the previous FM station is not restored although the EON search standby mode is cancelled. Instead, it stays tuned to the current FM station.

To cancel EON PTY search standby mode
Keep **PTY** pressed until "EON PTY" and the specified PTY are displayed alternately. (Do not release **PTY** yet.) At this time, press ▮▮ **SET** while still pressing **PTY**. "EON OFF" is displayed and EON search standby mode is cancelled.

NOTE
EON search functions does not work when:
- No FM stations are preset.
- The signals of the stations with the specified PTY are weak.

OTHER FUNCTION OF RDS CODES

Auto GEQ function
The equalization curve is switched automatically to match the music program type of an RDS station.
Press AG.
"AG" lights up.
To cancel, press it again.

GEQ matching PTY:

PTY	GEQ
POP M, COUNTRY, NATION M, OLDIES	POP
LIGHT M, JAZZ FOLK M, CLASSICS	CLASSIC
ROCK M	ROCK
Others	off

The selected GEQ can be changed to suit your preference by pressing the GEQ buttons. During this time, the Auto GEQ function is cancelled.

Clock-time (*8CT)
You can automatically set and update the clock on the hour every hour just by tuning in an RDS station since RDS stations transmit clock signals.

1 Press **RT** repeatedly to select "CT ON" while the time is displayed (see "Setting the clock").
2 Tune in an RDS station.

To deactivate CT function (If the clock is set wrongly due to an incorrect clock signal)
Repeat step 1 to select "CT OFF".

***1RDS**
Today many stations transmit so-called RDS (Radio Data System) codes that contain a variety of additional information along with the regular sound signals.

***2Identical RDS stations with alternative frequencies (AF)**
This is a list of alternative frequencies which gives information on the various transmitters broadcasting the same program in the same reception area. It enables receivers equipped with memory to store the list, to reduce the time for switching to another transmitter.

***3Program service station name (PS)**
This is a name consisting of not more than 8 alphanumeric characters, which is displayed in order to inform listeners what program service is being broadcast by the radio station.
Example: BBC 1
Characters which can be displayed

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9 < > ? " ' ※ @ ¡ ¨ _ ¿ – + /

If a character transmitted by the broadcast is not applicable to receivers, a space is left instead.

***4Radiotext (RT)**
Information such as the cast list of a play or the title of a song is shown on the display.

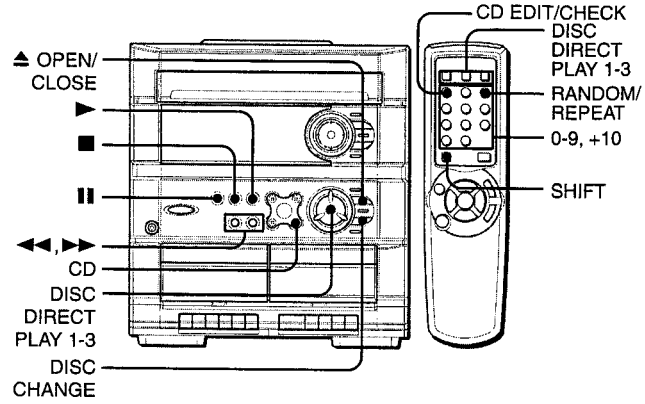
***5Program type identification (PTY)**
PTY allows selection of listening by one of 15 or more program types rather than by a station.

***6Enhanced other networks information (EON)**
EON information gives the receiver a cross reference to other stations and allows the receiver to switch from the currently tuned station to another RDS station.

***7Traffic program identification (TP)**
This is a code which informs the receiver that a tuned station regularly broadcasts traffic information.

***8Clock-time (CT)**
CT function provides an accurate clock signal which is self adjusting to time zones and seasonal time changes.

BASIC OPERATIONS



LOADING DISCS

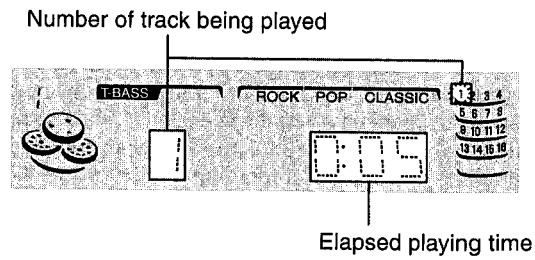
Press CD, then press ▲OPEN/CLOSE to open the disc compartment. Load disc(s) with the label side up.

To load one or two discs, place the discs on tray 1 and 2.
To load three discs, press **DISC CHANGE** to rotate the trays after placing two discs. Place the third disc on tray 3. Close the disc compartment by pressing **▲ OPEN/CLOSE**.

PLAYING DISCS

Load discs.

To play all discs in the disc compartment, press ►.
Play begins with the disc on tray 1.



To play one disc only, press one of DISC DIRECT PLAY 1-3.
The selected disc is played once.

To stop play, press ■.
To pause play, press II. To resume play, press again.
To search for a particular point during playback, keep ◄◄ or ►► pressed and release the button at the desired point.
To skip to the beginning of a track during playback, press ◄◄ or ►► repeatedly.
To remove discs, press **▲OPEN/CLOSE**.

To start play when the power is off (Direct Play Function)
Press **CD**. The power is turned on and play of the loaded disc(s) begins.
When **▲OPEN/CLOSE** is pressed, the power is also turned on and the disc compartment is opened.

To check the remaining time

During play (except random play or programmed play), press **CD EDIT/CHECK** on the remote control while pressing **SHIFT**. The amount of time remaining until all tracks finish playing is displayed. To restore the playing time display, repeat the above.

Selecting a track with the remote control

1 Press one of **DISC DIRECT PLAY 1-3** to select a disc.
2 Press numbered buttons **0-9** and **+10** to select a track.
Example:
To select the 25th track, press **+10**, **+10** and **5**.
To select the 10th track, press **+10** and **0**.
The selected track starts to play and continues to the end of that disc.

Replacing discs during play

While one disc is playing, the other discs can be replaced without interrupting play.

1 Press **DISC CHANGE**.
2 Remove the discs and replace with other discs.
3 Press **≜OPEN/CLOSE** to close the disc compartment.

NOTE

- When loading an 8-cm (3-inch) disc, make sure to place it onto the inner circle of the tray precisely.
- Do not place more than one compact disc on one disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.
- When transporting the unit, remove the discs from the trays.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.
- The unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.
- Do not attach any seal or label to either side (the recordable side or the labeled side) of a CD-R/RW disc. It may cause malfunction.

RANDOM/REPEAT PLAY

Use the remote control.

RANDOM play

All the tracks on the selected disc or all the discs can be played randomly.

REPEAT play

A single disc or all the discs can be played repeatedly.

Press RANDOM/REPEAT while pressing SHIFT.

Each time it is pressed, the function can be selected cyclically.
RANDOM play — RANDOM lights up on the display.
REPEAT play — ↻ lights up on the display.
RANDOM/REPEAT play — RANDOM and ↻ light up on the display.
Cancel — RANDOM and ↻ disappear from the display.

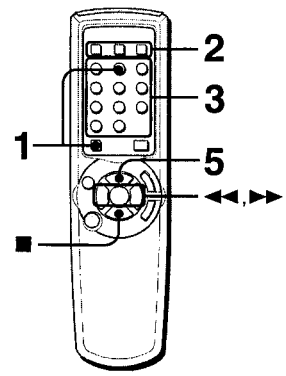
To play all discs, press ► to start play.
To play a single disc, press one of **DISC DIRECT PLAY 1-3** to start play.

NOTE

During random play it is not possible to skip to the previously played track with ◄◄.

PROGRAMMED PLAY

Up to 30 tracks can be programmed from any of the inserted discs.



Use the remote control.

***1* Press PRGM while pressing SHIFT in stop mode.**
"PRGM" is displayed .

***2* Press one of DISC DIRECT PLAY 1-3 to select a disc.**
Go to the next step when the tray stops rotating.

***3* Press numbered buttons 0-9 and +10 to program a track.**
Example:
To select the 25th track, press **+10**, **+10** and **5**.
To select the 10th track, press **+10** and **0**.

***4* Repeat steps 2 and 3 to program other tracks.**

***5* Press ► to start play.**

To check the program

Each time ◄◄ or ►► is pressed in stop mode, a disc number, track number, and program number will be displayed.

To clear the program

Press **■CLEAR** in stop mode.

To add tracks to the program

Repeat steps 2 and 3 in stop mode. The track will be programmed after the last track.

To change the programmed tracks

Clear the program and repeat all the steps again.

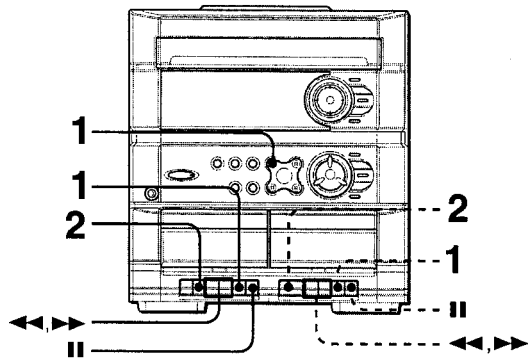
To play the programmed tracks repeatedly

After programming the tracks, press **RANDOM/REPEAT** repeatedly while pressing **SHIFT** until ↻ appears on the display.

NOTE

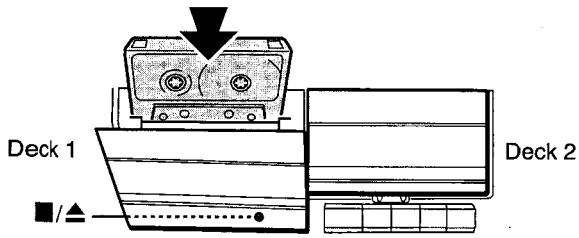
- During programmed play, you can not use random play, check the remaining time or select a track.
- "FULL" is displayed if you attempt to program more than 30 tracks.

BASIC OPERATIONS



Use Type I (normal) tapes only.

1 Press TAPE, then press ■/≜ to open the cassette holder.



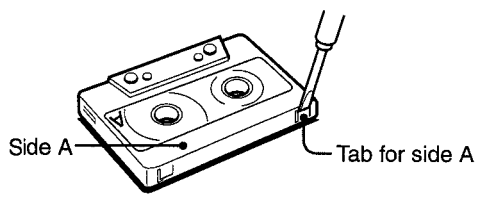
Insert a tape with the exposed side down. Push the cassette holder to close.

2 Press ► to start play.
Only the side facing out from the unit can be played back.

To stop play, press ■/≜.
To pause play, press II. To resume play, press again.
To fast forward or rewind, press ◄◄ or ►► in stop mode. Then press ■/≜ to stop the tape.

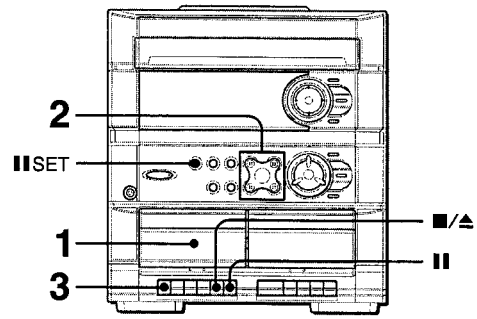
When both deck 1 and deck 2 are set in the playback mode
Deck 2 is heard.

About cassette tapes
- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in** the tape with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.
- **To prevent accidental erasure**, break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.



To record on the tape again, cover the tab openings with adhesive tape, etc.

BASIC RECORDING



Preparation
- Use Type I (normal) tapes only.
- Set the tape to the point where recording will start.
- Note that recording is done on only one side of the tape.

1 Insert the tape to be recorded on into deck 1.
Insert the tape with the side to be recorded on first facing out from the unit.

2 Press one of the function buttons and prepare the source to be recorded.
To record from a CD, press **CD** and load the disc(s).
To record from a tape, press **TAPE**. Then, insert the original tape into deck 2 and play it.
To record from a radio broadcast, press **TUNER/BAND** and tune in to a station.
To record from a connected source, press **VIDEO/AUX/PHONO** and play the selected source.

3 Press ● on deck 1 to start recording.
► is depressed simultaneously. **REC** indicator is displayed. When the selected function is CD, playback and recording start simultaneously.

To stop recording, press ■/≜ on deck 1.
To pause recording, press II on deck 1.
To resume recording, press it again.

To record selected tracks of the CD
Before pressing ●, program the tracks (see page 10).

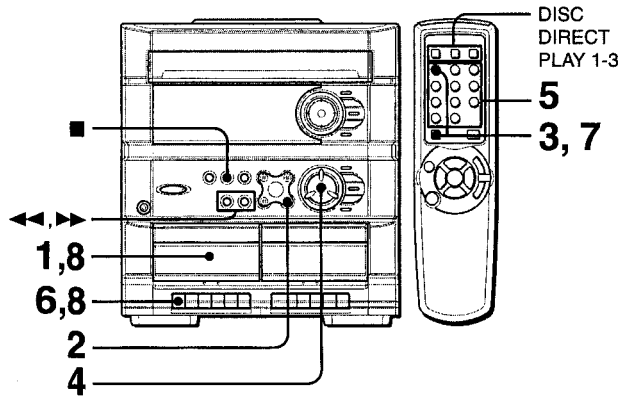
To record part of the CD
When ● is pressed, recording always starts from the first track. To start in the middle of a track, play the CD first and press **IISET** for CD at the point you wish to start recording from. Then, press ●. The pause mode for CD button is released automatically and recording starts.

Sound adjustment during recording
The output volume and tone of the speakers or headphones are freely varied without affecting the recording.

NOTE
- Do not press the buttons on deck 2 during recording.
- ● cannot be depressed if the erasure prevention tab on the side of the tape to be recorded is broken off.
- If squealing or beating sounds occur when recording an MW or LW broadcast, press **MONO TUNER** while pressing **SHIFT** on the remote control until small dot and "BEAT 1" or "BEAT 2" is displayed, so as to eliminate the noise.
- When recording on tape, close the disc compartment before starting to record.

To erase a recording
A previous recording is erased when a new recording is made on that part of that tape.
1 Insert the tape you want to erase into deck 1.
2 Press **TAPE** and stop all the tape operation in deck 2.
3 Wind up the tape to the point where the erasure is to be started.
4 Press ● on deck 1 to start the erasure.

AI EDIT RECORDING

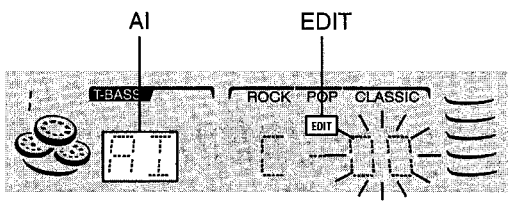


The AI edit recording function enables CD recording without worrying about tape length and track length. When a CD is inserted, the unit automatically calculates the total track length. If necessary, the order of tracks is rearranged so that no track is cut short.
(AI: Artificial Intelligence)

1 **Insert the tape into deck 1.**
Insert the tape with the side to be recorded on first facing out from the unit, and wind up the tape with ◄◄.

2 **Press CD and load the disc(s).**

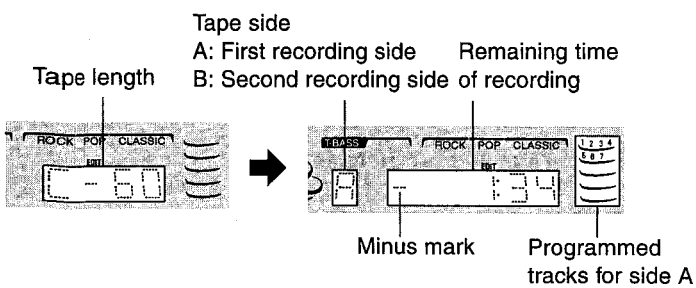
3 **Press CD EDIT/CHECK once while pressing SHIFT on the remote control.**
"EDIT" and "AI" are displayed.



• When "PRGM" is displayed, press **CD EDIT/CHECK** while pressing **SHIFT** again.

4 **Press one of DISC DIRECT PLAY 1-3 to select a disc.**

5 **Press numbered buttons 0-9 on the remote control to designate the tape length.**
10 to 99 minutes can be specified.
Example: When using a 60-minute tape, press **6** and **0**.
In a few seconds, the tracks to be recorded on each side of the tape are determined.
• ◄◄ and ►► are also available to designate the tape length.



6 **Press ● on deck 1 to start recording on the first side.**
REC flashes for 10 seconds, and then CD play and recording of edited tracks for the first side start simultaneously. When the end of the tape is reached, deck 1 enters the recording stop mode. After entering the recording stop mode go to step 7.

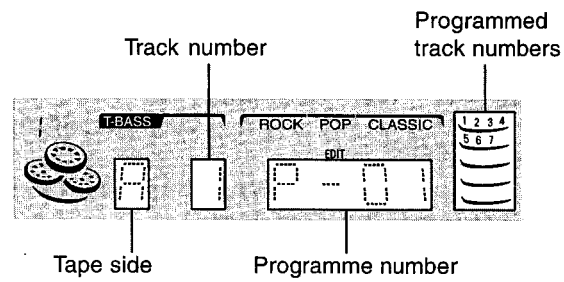
7 **Press CD EDIT/CHECK while pressing SHIFT on the remote control to display the programme for the second recording.**
"B" is displayed.

8 **Turn over the tape in deck 1 and press ● to start recording on the second side.**

To stop recording
Press ■/≜ on deck 1.
Recording and CD play stop simultaneously.

To clear the edit program
Press ■**CLEAR** twice in the stop mode so that "EDIT" disappears on the display, or press ≜**OPEN/CLOSE**.

To check the order of the programmed track numbers
Before recording, press **CD EDIT/CHECK** while pressing **SHIFT** on the remote control to select side A or B, and press ◄◄ or ►► repeatedly.



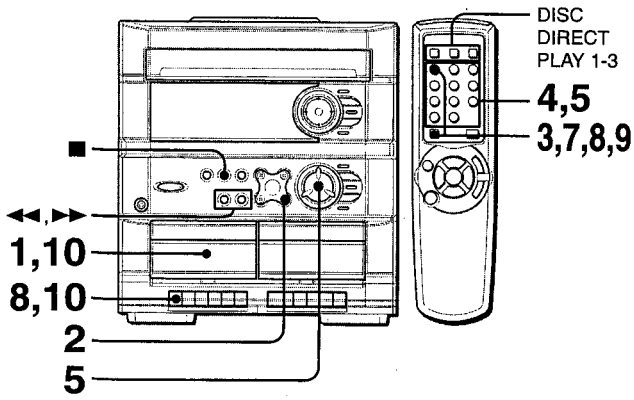
To add tracks from other discs to the edit programme
If there is any time remaining on the tape after step 5, you can add tracks from other discs in the CD compartment.
1 Press **CD EDIT/CHECK** while pressing **SHIFT** on the remote control to select side A or B.
2 Press one of **DISC DIRECT PLAY 1-3** to select a disc.
3 Press numbered buttons on the remote control to select tracks. A track whose playing time is longer than the remaining time cannot be programmed.
4 Repeat steps 2 and 3 to add more tracks.

Time on cassette tapes and editing time
The actual cassette recording time is usually a little longer than the specified recording time printed on the label. This unit can program tracks to use the extra time. When the total recording time is a little longer than the tape's specified recording time after editing, the display shows the extra time (without a minus mark), instead of the time remaining on the tape (with the minus mark).

NOTE
• Recording is inhibited if the erasure prevention tab for the side of the tape facing out from the unit is broken off.
• The AI edit recording function cannot be used with discs containing 31 tracks or more. "TR OVER" is displayed if this is attempted.

COPYRIGHT
Please check the laws on copyright relating to recordings from discs, radio or external tape for the country in which the machine is being used.

PROGRAMMED EDIT RECORDING



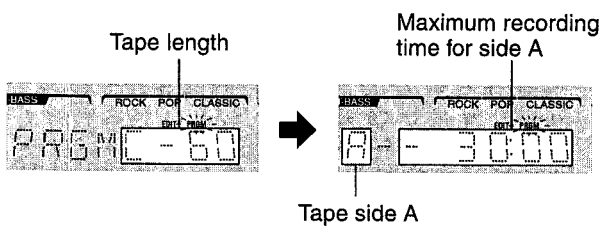
In the programmed edit recording function the tracks can be programmed while checking the remaining time on each side of the tape as the tracks are programmed.

1 **Insert the tape into deck 1.**
Insert the tape with the side to be recorded on first facing out from the unit, and wind up the tape with ◄◄.

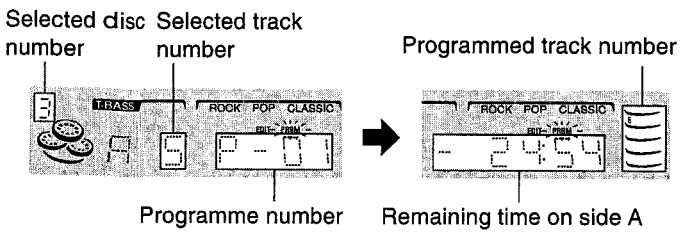
2 **Press CD and load the disc(s).**

3 **Press CD EDIT/CHECK twice while pressing SHIFT on the remote control.**
"EDIT" and "PRGM" are displayed.
- When "AI" is displayed, press **CD EDIT/CHECK** while pressing **SHIFT** again.

4 **Press numbered buttons on the remote control to designate the tape length.**
10 to 99 minutes can be specified.
- ◄◄ and ►► are also available to designate the tape length.

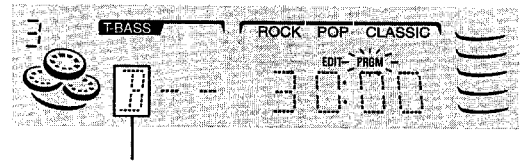


5 **Press one of DISC DIRECT PLAY 1-3 to select a disc.**
Then, press numbered buttons 0-9 and +10 on the remote control to program a track.
Example: To select the 10th track of disc 2, press **DISC DIRECT PLAY 2**, then press **+10** and **0**.



6 **Repeat step 5 for the rest of the tracks for side A.**
A track whose playing time is longer than the remaining time cannot be programmed.

7 **Press CD EDIT/CHECK while pressing SHIFT on the remote control to select side B and programme the tracks for side B.**



Tape side B (reverse side)

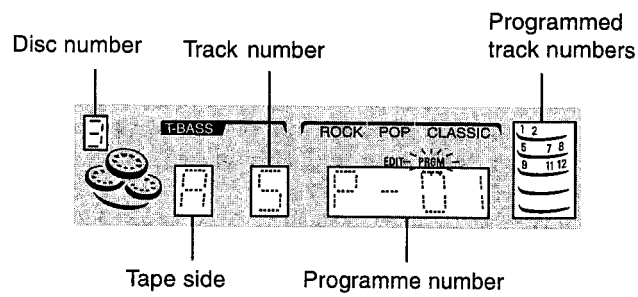
8 **Press CD EDIT/CHECK while pressing SHIFT to select side A and press ● on deck 1.**
REC flashes for 10 seconds, and then CD play and recording of edited tracks for the first side start simultaneously. When the end of the tape is reached, deck 1 enters the recording stop mode. After entering the recording stop mode, go to step 9.

9 **Press CD EDIT/CHECK while pressing SHIFT on the remote control for recording of the second side.**
"B" is displayed.

10 **Turn over the tape in deck 1 and press ● to start recording.**
Recording starts.

To stop recording
Press ■/⏏ on deck 1. Recording and CD play stop simultaneously.

To check the order of the programmed track numbers
Before recording, press **CD EDIT/CHECK** while pressing **SHIFT** on the remote control to select side A or B, and press ◄◄ or ►► repeatedly.

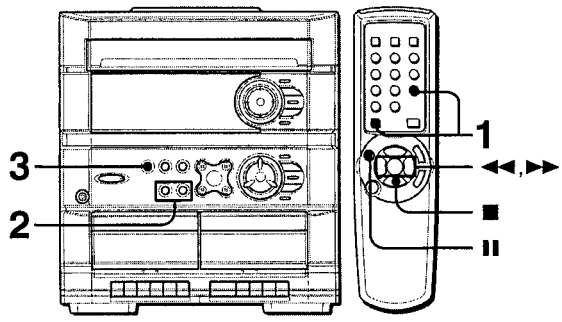


To change the program of each side
Press **CD EDIT/CHECK** while pressing **SHIFT** on the remote control to select side A or B, and press ■**CLEAR** to clear the program on the selected side. Then programme tracks again.

To clear the edit programme
Press ■**CLEAR** twice in stop mode so that "EDIT" disappears on the display.

NOTE
- Recording is inhibited if the erasure prevention tab for the side of the tape facing out from the unit is broken off.
- Up to 30 tracks can be programmed from any of the inserted discs.
- "FULL" is displayed if you attempt to programme more than 30 tracks.

SETTING THE CLOCK



When the clock is set, the ":" between the hours and minutes flashes. When the clock setting is canceled due to a power failure, the entire clock display flashes.

Use the remote control.

1 **Press CLOCK once while pressing SHIFT on the remote control.**
The clock is displayed.

2 **Within 4 seconds, press ◀◀ or ▶▶ to designate the hour and the minute.**
Holding these buttons down will vary the time rapidly.

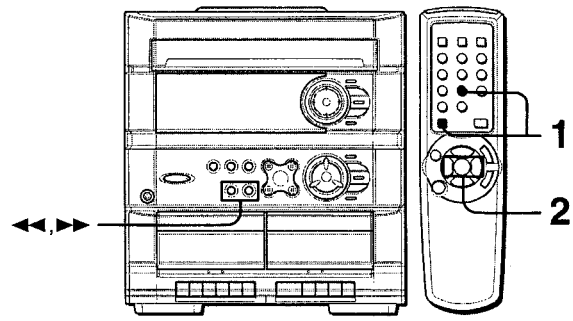
3 **Press II.**
The clock starts from 00 seconds.

To view the clock when another display is in the display
Press **CLOCK** while pressing **SHIFT**. The time is displayed for 4 seconds and then the original display reappears. However, the clock cannot be displayed during recording.

To switch to the 24-hour standard
Press **CLOCK** once while pressing **SHIFT** and then press ■ within 4 seconds.
Repeat the same procedure to restore the 12-hour standard.

If the clock display flashes
If the display flashes when the clock is displayed, it indicates that the clock has stopped due to a power failure or the removal of the power cord. The current time needs to be reset.

SETTING THE SLEEP TIMER



The unit can be turned off automatically at a specified time.

Use the remote control.

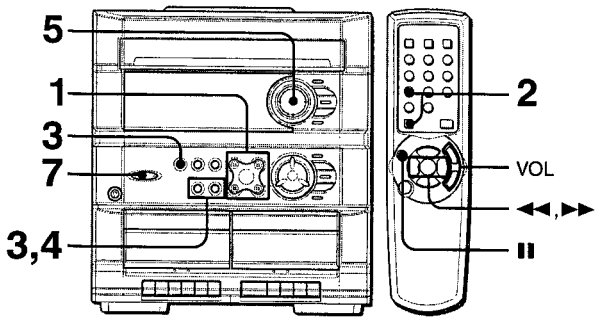
1 **Press SLEEP while pressing SHIFT on the remote control.**
"SLEEP" appears on the display.

2 **Within 4 seconds, press ◀◀ or ▶▶ to specify the time until the power is turned off.**
The time changes between 5 to 240 minutes in 5-minute steps. While the sleep timer is in operation, the display is dimmer than usual.

To check the time remaining until the power is turned off
Press **SLEEP** once while pressing **SHIFT**. The remaining time is displayed for 4 seconds.

To cancel the sleep timer
Press **SLEEP** twice while pressing **SHIFT** so that "SLEEPoFF" appears on the display.

SETTING THE TIMER



The unit can be turned on at a specified time every day with the built-in timer.

Preparation
Make sure the clock is set correctly.

***1* Press one of the function buttons to select a source.**
- If **TUNER/BAND** is pressed, the band can be selected in this step.

***2* Press TIMER while pressing SHIFT on the remote control until ◴ and "▯ PLAY" appear on the display.**
Time and audio source name flash alternately.

***3* Within 6 seconds, press ◀◀ or ▶▶ to designate the timer-on time, then press II.**
Holding these buttons down will vary the time rapidly.

***4* Within 4 seconds, press ◀◀ or ▶▶ to select the duration for the timer-activated period.**
The duration can be set between 5 to 240 minutes in 5-minute steps.
The duration will be automatically set after 4 seconds. It will also be set if II is pressed within 4 seconds after step 4.

***5* Adjust the volume.**
The source sound will play at the volume level set in this step when the power is turned on by the timer.
If the volume level is set to 17 or higher, however, it will automatically be set to 16 when the power is turned on.

***6* Prepare the source.**
To listen to a CD, load the disc to be played first on tray 1.
To listen to a tape, insert the tape into deck 1 or 2.
To listen to the radio, tune in to a station.

***7* Press POWER ⏻ STANDBY/ON to turn off the power.**
◴ remains on the display after the power is turned off (timer standby mode).

***8* Get ready for the TAPE function or the timer recording.**
To listen to the tape, press ▶ on deck 1 or 2.
To record the source, insert the tape into deck 1 and press ● on deck 1.

When the timer-on time is reached, the unit turns on and begins play with the selected source.

NOTE
You can change the source that was selected in step 1 by pressing one of the function buttons before pressing II in step 3.

The timer recording period and tape length
When the length of the tape to be recorded is shorter than the timer recording period, ● on deck 1 is released before the timer is off.
When the tape length is longer than the timer recording period, ● is not released. If ● is not released for a long time, the tape in the deck may be damaged. Press ■/⏏ to release ●.

To check the timer setting
Press **TIMER** while pressing **SHIFT**.
The selected source, the timer-on time, and the duration for the timer-activated period will be displayed for 6 seconds.

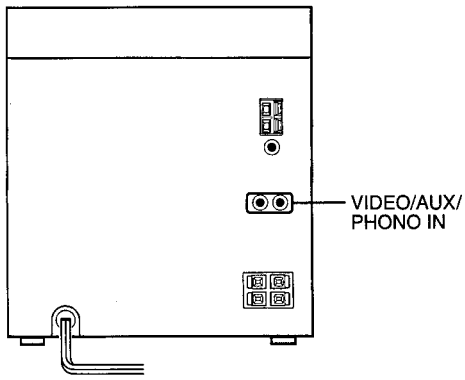
To change any of the previous setting
Carry out from step 1.
However, if you do not change the timer-on time, in step 3 just press II twice and continue from step 4.

To cancel the timer standby mode temporarily
Press **TIMER** while pressing **SHIFT** so that ◴ disappears.
To restore the timer standby mode, press these buttons again to display ◴.

Using the unit while the timer is set
You can use the unit normally after setting the timer.
Before turning off the power, carry out step 5 and 6.

NOTE
- Timer playback and timer recording will not begin unless the power is turned off.
- Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.
- While the timer is in operation, the display indication is dimmer than usual.

CONNECTING OPTIONAL EQUIPMENT



Refer to the operating instructions of the connected equipment for details.

- The connecting cords are not supplied. Obtain the necessary connecting cords.
- Consult your local Aiwa dealer for optional equipment.

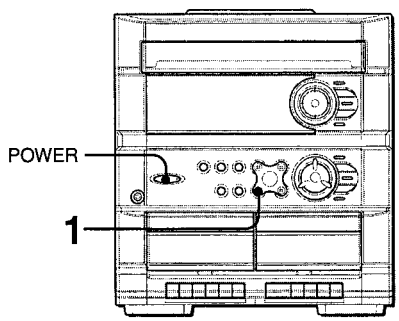
VIDEO/AUX/PHONO IN JACKS

This unit can input analog sound signals through these jacks. Use a cable with RCA phono plugs to connect audio equipment (LD players, MD players, VCRs, TV, etc.).
Connect the red plug to **VIDEO/AUX/PHONO IN R** jack, and the white plug to **VIDEO/AUX/PHONO IN L** jack.

When connecting a turntable

Use an Aiwa turntable equipped with a built-in equalizer amplifier.

LISTENING TO EXTERNAL SOURCES



To play equipment connected to **VIDEO/AUX/PHONO IN** jacks proceed as follows.

1 Press VIDEO/AUX/PHONO.

"VIDEO" appears on the display.

2 Play the connected equipment.

To change a source name on the display

When **VIDEO/AUX/PHONO** is pressed, "VIDEO" is displayed initially. It can be changed to "AUX," "TV" or "PHONO."
With the power on, press **POWER** while pressing **VIDEO/AUX/PHONO**.
Repeat the procedure to select one of the names.

CARE AND MAINTENANCE

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet

Use a soft and dry cloth.
If the surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner as these could damage the finish of the unit.

To clean the tape heads

When the tape heads are dirty;
- high frequency sound is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on

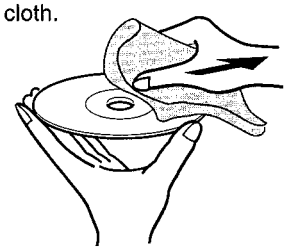
After every 10 hours of use, clean the tape heads with a head cleaning cassette.
Refer to the instructions of the cleaning cassette for details.

To demagnetize the tape heads

The tape heads may become magnetized after long-term use. This may narrow the output range of recorded tapes and increase noise.
After every 20 to 30 hours of use, demagnetize the tape heads with a separately sold demagnetizing cassette.
Refer to the instructions of the demagnetizing cassette for details.

Care of discs

- When a disc becomes dirty, wipe the disc from the center out with a cleaning cloth.



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

Care of tapes

- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.

- Is the AC cord connected properly?
- Is there a bad connection? (→ page 3)
- There may be a short circuit in the speaker terminals.
  → Disconnect the AC cord, then correct the speaker connections.
- Was an incorrect function button pressed?

Sound is emitted from one speaker only.

- Is the other speaker disconnected?

An erroneous display or a malfunction occurs.

→ Reset the unit as stated below.

The unit blacks out when the power is turned off.

- Is the power economizing mode set to "ECO ON" or "ECO AUTO"? (→ page 5)

The power is not turned on.

→ Disconnect the AC cord, and connect it again in a few seconds.

TUNER SECTION

There is constant, wave-like static.

- Is the antenna connected properly? (→ page 3)
- Is the signal weak?
  → Connect an outdoor antenna.

The reception contains noise interferences or the sound is distorted.

- Is the system picking up external noise or multipath distortion?
  → Change the orientation of the antenna.
  → Move the unit away from other electrical appliances.

CASSETTE DECK SECTION

The tape does not run.

- Is the deck in pause mode? (→ page 11)

The sound is off-balance or not adequately high.

- Is the playback head dirty? (→ page 16)

Recording is not possible.

- Is the erasure prevention tab on the tape broken off? (→ page 11)
- Is the recording head dirty? (→ page 16)

Erasure is not possible.

- Is the erasure head dirty? (→ page 16)
- Is a metal tape being used?

High frequency sound is not emitted.

- Is the recording/playback head dirty? (→ page 16)

CD PLAYER SECTION

The CD player does not play.

- Is the disc correctly placed? (→ page 9)
- Is the disc dirty? (→ page 16)
- Is the lens affected by condensation?
  → Wait approximately one hour and try again.

To reset

If an unusual condition occurs in the display window or the cassette decks, reset the unit as follows.

1 Press **POWER** to turn off the power.

2 Press **POWER** to turn the power back on while pressing **■CLEAR**. Everything stored in memory after purchase is cancelled.

If the power cannot be turned off in step 1 because of a malfunction, reset by disconnecting the AC cord, and connect it again. Then carry out step 2.

SPECIFICATIONS

Main unit CX-ZL120

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

Amplifier section

Power output	Rated: 24 W + 24 W (6 ohms, T.H.D. 1%, 1 kHz) Reference: 30 W + 30 W (6 ohms, T.H.D. 10%, 1 kHz)
Total harmonic distortion	0.15 % (10 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX/PHONO IN: 500 mV
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 10000 Hz
Recording system	AC bias
Heads	Deck 1: Recording/playback head × 1, erase head × 1 Deck 2: Playback head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

General

Power requirements	230 V AC, 50 Hz
Power consumption	80 W
Dimensions of main unit (W × H × D)	360 × 395.3 × 348.8 mm (14 1/4 × 15 5/8 × 13 3/4 in.)
Weight of main unit	7.2 kg (15 lbs 14 oz)

Standby power consumption

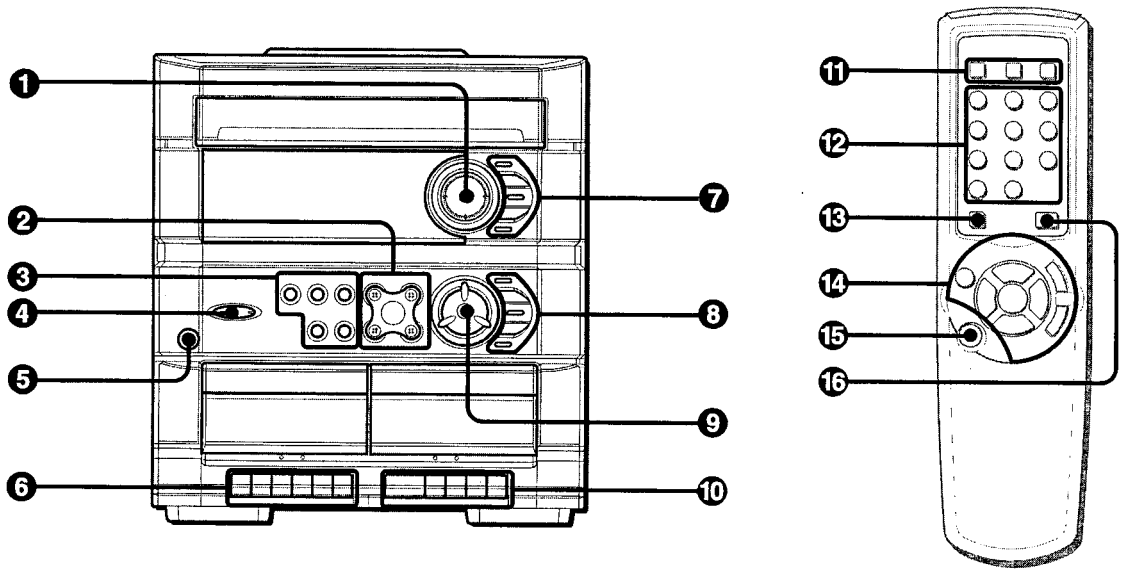
If the power-economizing mode is OFF: 22W
If the power-economizing mode is AUTO or ON: 0.9W

Speaker system SX-ZL120

Cabinet type	2 way, bass reflex
Speakers	Woofer: 130 mm (5 1/8 in.) cone type Tweeter: 20 mm (13/16 in.) ceramic type
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W × H × D)	260 × 495 × 260 mm (10 1/4 × 19 1/2 × 10 1/4 in.)
Weight	4.5 kg (9 lbs 15 oz.)

Specifications and external appearance are subject to change without notice.

PARTS INDEX



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